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L7 and L8	1

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L9

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<u>L8</u>	(projectile\$1 or missile\$1 or rocket\$1)	46	<u>L8</u>
<u>L7</u>	navigat\$3	405	<u>L7</u>

DB=USOC; PLUR=YES; OP=OR

<u>L6</u>	15 and vector\$1	128	<u>L6</u>
<u>L5</u>	14 and (projectile\$1 or missile\$1 or rocket\$1)	463	<u>L5</u>
<u>L4</u>	navigat\$3	5996	<u>L4</u>

DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR

<u>L3</u>	12 and vector\$1	62	<u>L3</u>
<u>L2</u>	(projectile\$1 or missile\$1 or rocket\$1).ti,ab. and 11	496	<u>L2</u>
<u>L1</u>	navigat\$3.ti,ab.	57206	<u>L1</u>

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AND	projectile	in	All Fields	▼
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IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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| <input type="checkbox"/> | 1. Determining inertial errors from navigation-in-place data
Pittman, D.N.; Roberts, C.E.;
Position Location and Navigation Symposium, 1992. Record. '500 Years After Columbus - Navigation Challenges of Tomorrow'.
IEEE PLANS '92., IEEE
23-27 March 1992 Page(s):60 - 67
AbstractPlus Full Text: PDF (452 KB) IEEE CNF |
| <input type="checkbox"/> | 2. Robust adaptive target state estimation for missile guidance using the interacting multiple model Kalman filter
Rago, C.; Mehra, R.K.;
Position Location and Navigation Symposium, IEEE 2000
13-16 March 2000 Page(s):355 - 362
AbstractPlus Full Text: PDF (576 KB) IEEE CNF |
| <input type="checkbox"/> | 3. Three-dimensional midcourse guidance using neural networks for interception of ballistic targets
Eun-Jung Song; Min-Jea Tahk;
Aerospace and Electronic Systems, IEEE Transactions on
Volume 38, Issue 2, April 2002 Page(s):404 - 414
AbstractPlus Full Text: PDF (868 KB) IEEE JNL |
| <input type="checkbox"/> | 4. Robust horizontal line-of-sight rate estimator for sea skimming anti-ship missile with two-axis gimballed seeker
Ra, W.-S.; Whang, I.-H.; Ahn, J.-Y.;
Radar, Sonar and Navigation, IEE Proceedings -
Volume 152, Issue 1, 11 Feb. 2005 Page(s):9 - 15
AbstractPlus Full Text: PDF (689 KB) IEE JNL |
| <input type="checkbox"/> | 5. Flight test development and evaluation of a Kalman filter state estimator for low-altitude flight
Zelenka, R.E.; Yee, Z.; Zirkler, A.;
Control Applications, 1993., Second IEEE Conference on
13-16 Sept. 1993 Page(s):783 - 790 vol.2
AbstractPlus Full Text: PDF (808 KB) IEEE CNF |
| <input type="checkbox"/> | 6. Spherical target state estimators
D'Souza, C.N.; McClure, M.A.; Cloutier, J.R.;
American Control Conference, 1994
Volume 2, 29 June-1 July 1994 Page(s):1675 - 1679 vol.2
AbstractPlus Full Text: PDF (372 KB) IEEE CNF |
| <input type="checkbox"/> | 7. Second-order adaptive spherical target state estimation
D'Souza, C.N.; McClure, M.A.; Cloutier, J.R.;
American Control Conference, 1995. Proceedings of the
Volume 3, 21-23 June 1995 Page(s):2153 - 2157 vol.3 |

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8. Adaptive target state estimation using neural networks

Menon, P.K.; Sharma, V.;

American Control Conference, 1999. Proceedings of the 1999

Volume 4, 2-4 June 1999 Page(s):2610 - 2614 vol.4

[AbstractPlus](#) | Full Text: [PDF](#)(472 KB) [IEEE CNF](#)



9. A robust horizontal LOS rate estimator for 2-axes gimbaled seeker

Won-Sang Ra; Ick-Ho Whang;

Decision and Control, 2002. Proceedings of the 41st IEEE Conference on

Volume 3, 10-13 Dec. 2002 Page(s):2884 - 2889 vol.3

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Gregory, Bernarr

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10644616_UST.txt



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10644616_EAST.txt



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10644616_CLS.txt



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5355767
5414430
5431084
5779187
5988562
6186441
6402031
5343395
5995884
6049745
6405132
6748325
5231585
6277568
4834531
4815390
5596166
5653216
6220141
6220141
5719675
5893901
6163799
5548516
5610815
5612883
5615116
5640323
5646843

10644616_EAST

5646845
5648901
5657226
5680313
5680306
5684696
5917446
5956250) .pn.
(6765498
4926336
4937753
4943925
5193766
5343399
5371497
5465089
5475599
5544061
5587911
5751228
5878368
5883461
5908465
5936631
6037942
6049755
6078864
6144920
6144318
6172641
6175801
6178380
6336073
6415224
6810328
4126039
5493627
5726378
5859327
5930935
6134823
6199470
6306913
6329574
6399861
6575074
6641480
6824468

10644616_EAST

5943009
6237496
3680355
3902374
4061043
4105900
4244215
4320397
4383662
4405985) .pn.
(4489389
4534000
4572670
4783742
4811233
4960250
5050087
5191528
5193064
5216605
5268695
5297762
5299764
5435725
5451963
5505410
5527003
5574650
5666111
5669579
5672872
5722614
5729234
5796922
5804812
5841370
5902351
5928309
6072433
6133870
6142423
6157891
6188937
6205400
6216983
6219616
6216983
6219616

10644616_EAST

6254031
6260805
6278945
6311129
6343244
6427122
6445983
6449559
6456941
6516272
6650360
6825804) .pn.

10644616_CLS
Most Frequently Occurring Classifications of Patents Returned
From A Search of 10644616 on April 21, 2005

Original Classifications

14	244/3.16
13	244/3.11
9	244/3.13
9	244/3.15
9	244/3.22
8	701/23
7	244/3.21
7	701/220
6	102/489
5	701/214
5	701/301
4	89/8
4	244/3.1
4	342/62
4	701/202
4	701/211
3	89/41.21
3	244/164
3	244/17.13
3	244/3.12
3	244/3.17
3	244/3.2
3	701/209
2	42/105
2	73/178R
2	74/5.6D
2	89/1.56
2	102/288
2	102/384
2	244/158R
2	244/195
2	244/3.19
2	244/3.23
2	244/3.28
2	342/357.02
2	343/765
2	348/144
2	463/38
2	701/1
2	701/16
2	701/207
2	701/212
2	701/216

2 701/3
2 701/300

Cross-Reference Classifications

18 701/213
15 340/990
13 701/211
11 244/3.1
11 701/200
10 244/3.22
10 340/988
10 701/220
9 244/3.14
8 73/178R
8 244/3.19
8 244/3.21
8 244/3.23
8 318/587
8 701/207
7 701/209
6 244/3.15
6 244/3.16
6 342/357.06
6 701/208
5 244/3.2
5 244/3.24
5 340/995.2
5 342/359
4 89/1.11
4 102/384
4 244/165
4 244/171
4 244/3.13
4 342/357.14
4 342/62
4 342/63
4 348/116
4 701/202
4 701/3
3 42/77
3 89/41.05
3 89/41.21
3 102/357
3 102/393
3 102/501
3 180/167
3 180/168
3 244/164

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3 244/175
3 244/176
3 244/3.11
3 244/3.17
3 244/52
3 244/75R
3 244/79
3 250/203.7
3 340/903
3 340/995.15
3 340/995.19
3 342/13
3 342/357.01
3 342/357.08
3 342/451
3 342/457
3 701/201
3 701/205
3 701/212
3 701/215
3 701/216
3 701/23
3 701/301
3 701/4
2 33/321
2 42/85
2 42/86
2 73/167
2 89/1.816
2 89/41.19
2 102/214
2 102/476
2 102/489
2 102/503
2 102/513
2 102/703
2 124/3
2 244/161
2 244/169
2 244/3.12
2 244/3.27
2 244/76R
2 310/90.5
2 340/436
2 342/120
2 342/146
2 342/147
2 342/20

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2 342/26R
2 342/357.05
2 342/357.11
2 342/357.13
2 342/357.17
2 342/450
2 342/455
2 342/61
2 345/419
2 348/117
2 348/118
2 348/169
2 356/5.01
2 382/103
2 463/37
2 701/13
2 701/206
2 701/210
2 701/214
2 701/221
2 701/224
2 701/225
2 701/226
2 701/25
2 701/26
2 701/27
2 701/36
2 701/6
2 715/841
2 800/288
2 800/293

Combined Classifications

20 244/3.16
19 244/3.22
18 701/213
17 701/211
17 701/220
16 244/3.11
15 244/3.1
15 244/3.15
15 244/3.21
15 340/990
13 244/3.13
12 701/200
11 340/988
11 701/23
10 73/178R

10 244/3.14
10 244/3.19
10 244/3.23
10 701/207
10 701/209
8 102/489
8 244/3.2
8 318/587
8 342/62
8 701/202
8 701/301
7 701/208
7 701/214
6 89/41.21
6 102/384
6 244/164
6 244/3.17
6 244/3.24
6 340/995.2
6 342/357.06
6 701/3
5 89/8
5 244/171
5 244/3.12
5 342/359
5 701/212
5 701/216
4 89/1.11
4 180/167
4 244/165
4 340/995.19
4 342/357.01
4 342/357.08
4 342/357.14
4 342/63
4 348/116
4 701/4
3 33/321
3 42/77
3 73/167
3 89/1.56
3 89/41.05
3 102/214
3 102/357
3 102/393
3 102/501
3 180/168
3 244/158R

3 244/161
3 244/169
3 244/17.13
3 244/175
3 244/176
3 244/3.27
3 244/52
3 244/75R
3 244/79
3 250/203.7
3 340/903
3 340/995.15
3 342/13
3 342/357.11
3 342/357.13
3 342/451
3 342/457
3 348/169
3 463/38
3 701/13
3 701/201
3 701/205
3 701/210
3 701/215
3 701/221
3 701/25
3 701/26
3 701/300
2 42/105
2 42/85
2 42/86
2 73/1.77
2 74/5.6D
2 89/1.815
2 89/1.816
2 89/41.03
2 89/41.19
2 102/213
2 102/288
2 102/476
2 102/503
2 102/513
2 102/703
2 124/3
2 244/195
2 244/3.28
2 244/3.3
2 244/76R

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2 250/225
2 310/90.5
2 340/436
2 340/995.27
2 342/120
2 342/14
2 342/146
2 342/147
2 342/20
2 342/26R
2 342/357.02
2 342/357.05
2 342/357.09
2 342/357.12
2 342/357.17
2 342/450
2 342/455
2 342/61
2 343/765
2 345/156
2 345/419
2 348/117
2 348/118
2 348/144
2 356/5.01
2 356/5.08
2 382/103
2 463/37
2 701/1
2 701/14
2 701/16
2 701/206
2 701/224
2 701/225
2 701/226
2 701/24
2 701/27
2 701/36
2 701/41
2 701/6
2 715/841
2 800/288
2 800/293
2 800/320.1

10644616_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10644616 on April 21, 2005

- 20 244/3.16 (14 OR, 6 XR)
Class 244 : AERONAUTICS
244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL
244/3.15 .Automatic guidance
244/3.16 ..Optical (includes infrared)
- 19 244/3.22 (9 OR, 10 XR)
Class 244 : AERONAUTICS
244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL
244/3.15 .Automatic guidance
244/3.21 ..Attitude control mechanisms
244/3.22 ...Fluid reaction type
- 18 701/213 (0 OR, 18 XR)
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION
701/200 NAVIGATION
701/207 .Employing position determining equipment
701/213 ..Using Global Positioning System (GPS)
- 17 701/211 (4 OR, 13 XR)
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION
701/200 NAVIGATION
701/207 .Employing position determining equipment
701/208 ..For use in a map data base system
701/211 ...Having audio or visual route guidance
- 17 701/220 (7 OR, 10 XR)
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION
701/200 NAVIGATION
701/207 .Employing position determining equipment
701/220 ..Using inertial sensor
- 16 244/3.11 (13 OR, 3 XR)
Class 244 : AERONAUTICS
244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL
244/3.11 .Remote control
- 15 244/3.1 (4 OR, 11 XR)
Class 244 : AERONAUTICS
244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL

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15 244/3.15 (9 OR, 6 XR)
 Class 244 : AERONAUTICS
 244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL
 244/3.15 .Automatic guidance

15 244/3.21 (7 OR, 8 XR)
 Class 244 : AERONAUTICS
 244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL
 244/3.15 .Automatic guidance
 244/3.21 ..Attitude control mechanisms

15 340/990 (0 OR, 15 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/988 VEHICLE POSITION INDICATION
 340/989 .At remote location
 340/990 ..With map display

13 244/3.13 (9 OR, 4 XR)
 Class 244 : AERONAUTICS
 244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL
 244/3.11 .Remote control
 244/3.13 ..Beam rider

12 701/200 (1 OR, 11 XR)
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
 RELATIVE LOCATION
 701/200 NAVIGATION

11 340/988 (1 OR, 10 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/988 VEHICLE POSITION INDICATION

11 701/23 (8 OR, 3 XR)
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
 RELATIVE LOCATION
 701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR
 INDICATION
 701/23 .Automatic route guidance vehicle

10 73/178R (2 OR, 8 XR)
 Class 073 : MEASURING AND TESTING
 73/178R NAVIGATION

10 244/3.14 (1 OR, 9 XR)
 Class 244 : AERONAUTICS
 244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL
 244/3.11 .Remote control

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- 244/3.14 ..Radio wave
- 10 244/3.19 (2 OR, 8 XR)
 Class 244 : AERONAUTICS
 244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL
 244/3.15 .Automatic guidance
 244/3.19 ..Radio wave
- 10 244/3.23 (2 OR, 8 XR)
 Class 244 : AERONAUTICS
 244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL
 244/3.23 .Stabilized by rotation
- 10 701/207 (2 OR, 8 XR)
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
 RELATIVE LOCATION
 701/200 NAVIGATION
 701/207 .Employing position determining equipment
- 10 701/209 (3 OR, 7 XR)
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
 RELATIVE LOCATION
 701/200 NAVIGATION
 701/207 .Employing position determining equipment
 701/208 ..For use in a map data base system
 701/209 ...Including route searching or determining
 device
- 8 102/489 (6 OR, 2 XR)
 Class 102 : AMMUNITION AND EXPLOSIVES
 102/473 SHELLS
 102/489 .With secondary shells
- 8 244/3.2 (3 OR, 5 XR)
 Class 244 : AERONAUTICS
 244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL
 244/3.15 .Automatic guidance
 244/3.2 ..Inertial
- 8 318/587 (0 OR, 8 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/560 POSITIONAL SERVO SYSTEMS (E.G.,
 SERVOMECHANISMS)
 318/580 .Vehicular guidance systems with single axis
 control
 318/587 ..Land vehicles
- 8 342/62 (4 OR, 4 XR)

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Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/61 RETURN SIGNAL CONTROLS EXTERNAL DEVICE

342/62 .Missile or spacecraft guidance

8 701/202 (4 OR, 4 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION

701/200 NAVIGATION

701/201 .Determination of travel data based on the
start point and destination point

701/202 ..Route pre-planning

8 701/301 (5 OR, 3 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION

701/300 RELATIVE LOCATION

701/301 .Collision avoidance

7 701/208 (1 OR, 6 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION

701/200 NAVIGATION

701/207 .Employing position determining equipment

701/208 ..For use in a map data base system

7 701/214 (5 OR, 2 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION

701/200 NAVIGATION

701/207 .Employing position determining equipment

701/213 ..Using Global Positioning System (GPS)

701/214 ...Means to improve accuracy of position or
location

6 89/41.21 (3 OR, 3 XR)

Class 089 : ORDNANCE

89/37.01 MOUNTS

89/41.01 .Training mechanisms

89/41.19 ..Sights or line devices

89/41.21 ...On aircraft

6 102/384 (2 OR, 4 XR)

Class 102 : AMMUNITION AND EXPLOSIVES

102/382 DROP BOMBS

102/384 .With direction controlling means

6 244/164 (3 OR, 3 XR)

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Class 244 : AERONAUTICS
 244/158R SPACECRAFT
 244/164 .Attitude control

6 244/3.17 (3 OR, 3 XR)
 Class 244 : AERONAUTICS
 244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL
 244/3.15 .Automatic guidance
 244/3.16 ..Optical (includes infrared)
 244/3.17 ...Optical correlation

6 244/3.24 (1 OR, 5 XR)
 Class 244 : AERONAUTICS
 244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL
 244/3.24 .Externally mounted stabilizing appendage
 (e.g., fin)

6 340/995.2 (1 OR, 5 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/988 VEHICLE POSITION INDICATION
 340/995.1 .Map display
 340/995.19 ..Route determination and display on map
 340/995.2 ...Intersection turn guidance

6 342/357.06 (0 OR, 6 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/352 .Including a satellite
 342/357.01 ..With position indicating
 342/357.06 ...Using Global Positioning Satellite (GPS or
 Glonass)

6 701/3 (2 OR, 4 XR)
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
 RELATIVE LOCATION
 701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR
 INDICATION
 701/3 .Aeronautical vehicle

5 89/8 (4 OR, 1 XR)
 Class 089 : ORDNANCE
 89/8 ACCELERATING

5 244/171 (1 OR, 4 XR)
 Class 244 : AERONAUTICS
 244/158R SPACECRAFT
 244/164 .Attitude control

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244/171 ..With attitude sensor means

5 244/3.12 (3 OR, 2 XR)

Class 244 : AERONAUTICS

244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL

244/3.11 .Remote control

244/3.12 ..Trailing wire

5 342/359 (0 OR, 5 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/350 DIRECTIVE

342/359 ..Including antenna orientation

5 701/212 (2 OR, 3 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION

701/200 NAVIGATION

701/207 ..Employing position determining equipment

701/208 ..For use in a map data base system

701/212 ...Having variable map scale

5 701/216 (2 OR, 3 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION

701/200 NAVIGATION

701/207 ..Employing position determining equipment

701/213 ..Using Global Positioning System (GPS)

701/214 ...Means to improve accuracy of position or
location

701/216Having an self-contained position computin

g

means (e.g., dead reckoning)

4 89/1.11 (0 OR, 4 XR)

Class 089 : ORDNANCE

89/1.11 WAGING WAR

4 180/167 (1 OR, 3 XR)

Class 180 : MOTOR VEHICLES

180/167 WITH MEANS FOR CONTROLLING OPERATION RESPONSIV

E

TO ELECTROMAGNETIC RADIATION, MAGNETIC FORC

E, OR SOUND

WAVES RECEIVED FROM SOURCE, OR REFLECTED FR

OM OBJECT OR

SURFACE, LOCATED APART FROM VEHICLE

10644616_CLSTITLES

- 4 244/165 (0 OR, 4 XR)
 - Class 244 : AERONAUTICS
 - 244/158R SPACECRAFT
 - 244/164 .Attitude control
 - 244/165 ..By gyroscope or flywheel

- 4 340/995.19 (1 OR, 3 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/988 VEHICLE POSITION INDICATION
 - 340/995.1 .Map display
 - 340/995.19 ..Route determination and display on map

- 4 342/357.01 (1 OR, 3 XR)
 - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
 - 342/350 DIRECTIVE
 - 342/352 .Including a satellite
 - 342/357.01 ..With position indicating

- 4 342/357.08 (1 OR, 3 XR)
 - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
 - 342/350 DIRECTIVE
 - 342/352 .Including a satellite
 - 342/357.01 ..With position indicating
 - 342/357.06 ...Using Global Positioning Satellite (GPS or Glonass)
 - 342/357.08Determining relative position (e.g., distance or direction)

- 4 342/357.14 (0 OR, 4 XR)
 - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
 - 342/350 DIRECTIVE
 - 342/352 .Including a satellite
 - 342/357.01 ..With position indicating
 - 342/357.06 ...Using Global Positioning Satellite (GPS or Glonass)
 - 342/357.14Combined with secondary navigation system (i.e., LORAN, gyroscope, inertial, dead reckoning, etc.)

- 4 342/63 (0 OR, 4 XR)
 - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
 - 342/61 RETURN SIGNAL CONTROLS EXTERNAL DEVICE
 - 342/63 .Aircraft guidance

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- 4 348/116 (0 OR, 4 XR)
 - Class 348 : TELEVISION
 - 348/61 SPECIAL APPLICATIONS
 - 348/113 .Navigation
 - 348/116 ..Direction finding or location determination

- 4 701/4 (1 OR, 3 XR)
 - Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION
 - 701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR
INDICATION
 - 701/3 .Aeronautical vehicle
 - 701/4 ..Altitude or attitude control or indication

- 3 33/321 (1 OR, 2 XR)
 - Class 033 : GEOMETRICAL INSTRUMENTS
 - 33/300 INDICATOR OF DIRECTION OF FORCE TRAVERSING
NATURAL MEDIA
 - 33/318 .Gyroscopically controlled or stabilized
 - 33/321 ..Plural gyroscopes (e.g., reference platform,
etc.)

- 3 42/77 (0 OR, 3 XR)
 - Class 042 : FIREARMS
 - 42/76.01 BARRELS
 - 42/77 .Auxiliary

- 3 73/167 (1 OR, 2 XR)
 - Class 073 : MEASURING AND TESTING
 - 73/167 ORDNANCE AND PROJECTILE

- 3 89/1.56 (2 OR, 1 XR)
 - Class 089 : ORDNANCE
 - 89/1.51 BOMB, FLARE AND SIGNAL DROPPING
 - 89/1.56 .Electrical and radio releases and sighting

- 3 89/41.05 (0 OR, 3 XR)
 - Class 089 : ORDNANCE
 - 89/37.01 MOUNTS
 - 89/41.01 .Training mechanisms
 - 89/41.02 ..Motor operated
 - 89/41.05 ...By television monitoring

- 3 102/214 (1 OR, 2 XR)
 - Class 102 : AMMUNITION AND EXPLOSIVES
 - 102/200 IGNITING DEVICES AND SYSTEMS
 - 102/206 .Ignition or detonation circuit

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102/211 ..Proximity fuze
102/214 ...Radio wave

3 102/357 (0 OR, 3 XR)
Class 102 : AMMUNITION AND EXPLOSIVES
102/335 PYROTECHNICS
102/357 .With means to eject an object from a casing

3 102/393 (0 OR, 3 XR)
Class 102 : AMMUNITION AND EXPLOSIVES
102/382 DROP BOMBS
102/393 .Cluster type

3 102/501 (0 OR, 3 XR)
Class 102 : AMMUNITION AND EXPLOSIVES
102/501 PROJECTILES

3 180/168 (0 OR, 3 XR)
Class 180 : MOTOR VEHICLES
180/167 WITH MEANS FOR CONTROLLING OPERATION RESPONSIV

E
TO ELECTROMAGNETIC RADIATION, MAGNETIC FOR
CE, OR SOUND
WAVES RECEIVED FROM SOURCE, OR REFLECTED F
ROM OBJECT OR
SURFACE, LOCATED APART FROM VEHICLE
180/168 .Having controlling means adapted to interact
with stationary means which describes cours
e of vehicle's
travel

3 244/158R (2 OR, 1 XR)
Class 244 : AERONAUTICS
244/158R SPACECRAFT

3 244/161 (1 OR, 2 XR)
Class 244 : AERONAUTICS
244/158R SPACECRAFT
244/160 .Reentry vehicle
244/161 ..Rendezvous and docking

3 244/169 (1 OR, 2 XR)
Class 244 : AERONAUTICS
244/158R SPACECRAFT
244/164 .Attitude control
244/169 ..By jet motor

3 244/17.13 (3 OR, 0 XR)

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Class 244 : AERONAUTICS

244/4R AIRCRAFT, HEAVIER-THAN-AIR

244/17.11 .Helicopter or auto-rotating wing sustained,
i.e., gyroplanes

244/17.13 ..Automatic or condition responsive control

3 244/175 (0 OR, 3 XR)

Class 244 : AERONAUTICS

244/75R AIRCRAFT CONTROL

244/76R .Automatic

244/175 ..Electric course control

3 244/176 (0 OR, 3 XR)

Class 244 : AERONAUTICS

244/75R AIRCRAFT CONTROL

244/76R .Automatic

244/175 ..Electric course control

244/176 ...Spaceship control

3 244/3.27 (1 OR, 2 XR)

Class 244 : AERONAUTICS

244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL

244/3.24 .Externally mounted stabilizing appendage
(e.g., fin)

244/3.27 ..Collapsible

3 244/52 (0 OR, 3 XR)

Class 244 : AERONAUTICS

244/51 AIRCRAFT, STEERING PROPULSION

244/52 .Fluid

3 244/75R (0 OR, 3 XR)

Class 244 : AERONAUTICS

244/75R AIRCRAFT CONTROL

3 244/79 (0 OR, 3 XR)

Class 244 : AERONAUTICS

244/75R AIRCRAFT CONTROL

244/76R .Automatic

244/79 ..Gyroscope actuated

3 250/203.7 (0 OR, 3 XR)

Class 250 : RADIANT ENERGY

250/200 PHOTOCELLS; CIRCUITS AND APPARATUS

250/201.1 .Photocell controls its own optical systems

250/203.1 ..Following a target (e.g., a star or
instrument pointer or other object) other
than a pattern

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 250/203.3 ...Self-luminous target
 250/203.7With moving reticle in optical path

3 340/903 (0 OR, 3 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/901 EXTERNAL CONDITION VEHICLE-MOUNTED INDICATOR O

R

ALARM
 340/902 .Transmitter in another vehicle (e.g.,
 emergency vehicle)
 340/903 ..Relative distance between vehicles (e.g.,
 collision alert)

3 340/995.15 (0 OR, 3 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/988 VEHICLE POSITION INDICATION
 340/995.1 .Map display
 340/995.14 ..Manipulation of map display or data
 340/995.15 ...Having adjustable map (e.g., scalable, etc.)

)

3 342/13 (0 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/13 RADAR EW (ELECTRONIC WARFARE)

3 342/357.11 (1 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/352 .Including a satellite
 342/357.01 ..With position indicating
 342/357.06 ...Using Global Positioning Satellite (GPS or
 Glonass)
 342/357.11Attitude determination

3 342/357.13 (1 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/352 .Including a satellite
 342/357.01 ..With position indicating
 342/357.06 ...Using Global Positioning Satellite (GPS or
 Glonass)
 342/357.13With storage device (i.e., map or database

)

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- 3 342/451 (0 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/450 .Position indicating (e.g., triangulation)
 342/451 ..By computer
- 3 342/457 (0 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/450 .Position indicating (e.g., triangulation)
 342/457 ..Land vehicle location (e.g., bus, police car
- 3 348/169 (1 OR, 2 XR)
 Class 348 : TELEVISION
 348/169 OBJECT TRACKING
- 3 463/38 (2 OR, 1 XR)
 Class 463 : AMUSEMENT DEVICES: GAMES
 463/1 INCLUDING MEANS FOR PROCESSING ELECTRONIC DATA
 (E.G., COMPUTER/VIDEO GAME, ETC.)
 463/36 .Player-actuated control structure (e.g.,
 foot pedal, etc.)
 brain-wave or body signal, bar-code wand,
 463/37 ..Hand manipulated (e.g., keyboard, mouse,
 touch panel, etc.)
 463/38 ...Pivotally-translatable handle (e.g.,
 joystick, etc.)
- 3 701/13 (1 OR, 2 XR)
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
 RELATIVE LOCATION
 701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR
 INDICATION
 701/3 .Aeronautical vehicle
 701/4 ..Altitude or attitude control or indication
 701/13 ...Spacecraft or satellite
- 3 701/201 (0 OR, 3 XR)
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
 RELATIVE LOCATION
 701/200 NAVIGATION
 701/201 .Determination of travel data based on the
 start point and destination point

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- 3 701/205 (0 OR, 3 XR)
 - Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION
 - 701/200 NAVIGATION
 - 701/205 .Determination of along-track or cross-track
deviations

- 3 701/210 (1 OR, 2 XR)
 - Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION
 - 701/200 NAVIGATION
 - 701/207 .Employing position determining equipment
 - 701/208 ..For use in a map data base system
 - 701/209 ...Including route searching or determining
device
 - 701/210Route correction, modification, or
verification

- 3 701/215 (0 OR, 3 XR)
 - Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION
 - 701/200 NAVIGATION
 - 701/207 .Employing position determining equipment
 - 701/213 ..Using Global Positioning System (GPS)
 - 701/214 ...Means to improve accuracy of position or
location
 - 701/215Having multiple GPS antennas or receivers
(e.g., differential GPS)

- 3 701/221 (1 OR, 2 XR)
 - Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION
 - 701/200 NAVIGATION
 - 701/207 .Employing position determining equipment
 - 701/220 ..Using inertial sensor
 - 701/221 ...With correction by noninertial sensor

- 3 701/25 (1 OR, 2 XR)
 - Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION
 - 701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR
INDICATION
 - 701/23 .Automatic route guidance vehicle
 - 701/25 ..Storage or planning of route information

- 3 701/26 (1 OR, 2 XR)
 - Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND

		10644616_CLSTITLES
		RELATIVE LOCATION
	701/1	VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
	701/23	.Automatic route guidance vehicle
	701/25	..Storage or planning of route information
	701/26	...Modification or correction of route information
3	701/300	(2 OR, 1 XR)
	Class 701 :	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/300	RELATIVE LOCATION
2	42/105	(2 OR, 0 XR)
	Class 042 :	FIREARMS
	42/90	IMPLEMENTS
	42/105	.For launching grenades
2	42/85	(0 OR, 2 XR)
	Class 042 :	FIREARMS
	42/85	GUN TRIMMINGS
2	42/86	(0 OR, 2 XR)
	Class 042 :	FIREARMS
	42/86	BAYONETS
2	73/1.77	(1 OR, 1 XR)
	Class 073 :	MEASURING AND TESTING
	73/1.01	INSTRUMENT PROVING OR CALIBRATING
	73/1.75	.Angle, direction, or inclination
	73/1.77	..Gyroscope
2	74/5.6D	(2 OR, 0 XR)
	Class 074 :	MACHINE ELEMENT OR MECHANISM
	74/5R	GYROSCOPES
	74/5.6R	.With pick off
	74/5.6D	..Electrical
2	89/1.815	(1 OR, 1 XR)
	Class 089 :	ORDNANCE
	89/1.8	ROCKET LAUNCHING
	89/1.815	.Movable launcher
2	89/1.816	(0 OR, 2 XR)
	Class 089 :	ORDNANCE
	89/1.8	ROCKET LAUNCHING
	89/1.816	.Having tubular guide means

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2 89/41.03 (1 OR, 1 XR)
 Class 089 : ORDNANCE
 89/37.01 MOUNTS
 89/41.01 .Training mechanisms
 89/41.02 ..Motor operated
 89/41.03 ...Predetermining parameters for automatic firing

2 89/41.19 (0 OR, 2 XR)
 Class 089 : ORDNANCE
 89/37.01 MOUNTS
 89/41.01 .Training mechanisms
 89/41.19 ..Sights or line devices

2 102/213 (1 OR, 1 XR)
 Class 102 : AMMUNITION AND EXPLOSIVES
 102/200 IGNITING DEVICES AND SYSTEMS
 102/206 .Ignition or detonation circuit
 102/211 ..Proximity fuze
 102/213 ...Light or infrared

2 102/288 (2 OR, 0 XR)
 Class 102 : AMMUNITION AND EXPLOSIVES
 102/283 POWDER FORM
 102/285 .Composite type
 102/288 ..Powder grain shape formed of fixed shape segments

2 102/476 (0 OR, 2 XR)
 Class 102 : AMMUNITION AND EXPLOSIVES
 102/473 SHELLS
 102/475 .Focused or directed detonation
 102/476 ..Shaped charge

2 102/503 (0 OR, 2 XR)
 Class 102 : AMMUNITION AND EXPLOSIVES
 102/501 PROJECTILES
 102/503 .Tubular

2 102/513 (0 OR, 2 XR)
 Class 102 : AMMUNITION AND EXPLOSIVES
 102/501 PROJECTILES
 102/513 .Target marking

2 102/703 (0 OR, 2 XR)
 Class 102 : AMMUNITION AND EXPLOSIVES
 102/703 FLECHETTE

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2	124/3	(0 OR, 2 XR)	
	Class	124 :	MECHANICAL GUNS AND PROJECTORS
	124/3		ELECTROMAGNETIC
2	244/195	(2 OR, 0 XR)	
	Class	244 :	AERONAUTICS
	244/75R		AIRCRAFT CONTROL
	244/76R		.Automatic
	244/175		..Electric course control
	244/194		...Monitoring circuit or response
	244/195	Self-adaptive control
2	244/3.28	(2 OR, 0 XR)	
	Class	244 :	AERONAUTICS
	244/3.1		MISSILE STABILIZATION OR TRAJECTORY CONTROL
	244/3.24		.Externally mounted stabilizing appendage (e.g., fin)
	244/3.27		..Collapsible
	244/3.28		...Longitudinally rotating
2	244/3.3	(1 OR, 1 XR)	
	Class	244 :	AERONAUTICS
	244/3.1		MISSILE STABILIZATION OR TRAJECTORY CONTROL
	244/3.24		.Externally mounted stabilizing appendage (e.g., fin)
	244/3.3		..Extending beyond rear of missile
2	244/76R	(0 OR, 2 XR)	
	Class	244 :	AERONAUTICS
	244/75R		AIRCRAFT CONTROL
	244/76R		.Automatic
2	250/225	(1 OR, 1 XR)	
	Class	250 :	RADIANT ENERGY
	250/200		PHOTOCELLS; CIRCUITS AND APPARATUS
	250/216		.Optical or pre-photocell system
	250/225		..Polarizing
2	310/90.5	(0 OR, 2 XR)	
	Class	310 :	ELECTRICAL GENERATOR OR MOTOR STRUCTURE
	310/10		DYNAMOELECTRIC
	310/40R		.Rotary
	310/66		..With other elements
	310/90		...Bearing or air-gap adjustment or bearing lubrication
	310/90.5	Magnetic bearing
2	340/436	(0 OR, 2 XR)	

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Class 340 : COMMUNICATIONS: ELECTRICAL
 340/425.5 LAND VEHICLE ALARMS OR INDICATORS
 340/436 .Of collision or contact with external object

2 340/995.27 (1 OR, 1 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL
 340/988 VEHICLE POSITION INDICATION
 340/995.1 .Map display
 340/995.27 ..Including particular display feature (e.g.,
 indication of direction, mileage, road type

, etc.)

2 342/120 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE
 342/120 .Altimeter

2 342/14 (1 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/13 RADAR EW (ELECTRONIC WARFARE)
 342/14 .ECM (Electronic countermeasures, i.e.,
 jamming)

2 342/146 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE
 342/146 .Combined with determining direction

2 342/147 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/147 DETERMINING DIRECTION

2 342/20 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/13 RADAR EW (ELECTRONIC WARFARE)
 342/20 .Detection of surveillance

2 342/26R (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/26R Radar for meteorological use (EPO)

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- 2 342/357.02 (2 OR, 0 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/352 .Including a satellite
 342/357.01 ..With position indicating
 342/357.02 ...With accuracy enhancing
- 2 342/357.05 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/352 .Including a satellite
 342/357.01 ..With position indicating
 342/357.05 ...Using Doppler frequency shift
- 2 342/357.09 (1 OR, 1 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/352 .Including a satellite
 342/357.01 ..With position indicating
 342/357.06 ...Using Global Positioning Satellite (GPS or
 Glonass)
 342/357.09With transmission of location-indicative
 information to or from a remote station
- 2 342/357.12 (1 OR, 1 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/352 .Including a satellite
 342/357.01 ..With position indicating
 342/357.06 ...Using Global Positioning Satellite (GPS or
 Glonass)
 342/357.12GPS receiver signal processing
- 2 342/357.17 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/352 .Including a satellite
 342/357.01 ..With position indicating
 342/357.17 ...With particular action taken responsive to
 position
- 2 342/450 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS

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AND DEVICES

342/350 DIRECTIVE
342/450 .Position indicating (e.g., triangulation)

2 342/455 (0 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/350 DIRECTIVE
342/450 .Position indicating (e.g., triangulation)
342/454 ..Traffic
342/455 ...Having collision avoidance

2 342/61 (0 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/61 RETURN SIGNAL CONTROLS EXTERNAL DEVICE

2 343/765 (2 OR, 0 XR)
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
343/700R ANTENNAS
343/757 .With means for moving directive antenna for
scanning, sweeping or orienting
343/763 ..Rotary or rotary oscillatory motion
343/765 ...In different planes

2 345/156 (1 OR, 1 XR)
Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
INTERFACE PROCESSING, AND SELECTIVE VISUAL
DISPLAY
SYSTEMS
345/156 DISPLAY PERIPHERAL INTERFACE INPUT DEVICE

2 345/419 (0 OR, 2 XR)
Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
INTERFACE PROCESSING, AND SELECTIVE VISUAL
DISPLAY
SYSTEMS
345/418 COMPUTER GRAPHICS PROCESSING
345/419 .Three-dimension

2 348/117 (0 OR, 2 XR)
Class 348 : TELEVISION
348/61 SPECIAL APPLICATIONS
348/113 .Navigation
348/117 ..Aircraft or spacecraft

2 348/118 (0 OR, 2 XR)
Class 348 : TELEVISION

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348/61 SPECIAL APPLICATIONS

348/113 .Navigation

348/118 ..Land vehicle

2 348/144 (2 OR, 0 XR)

Class 348 : TELEVISION

348/61 SPECIAL APPLICATIONS

348/143 .Observation of or from a specific location
(e.g., surveillance)

348/144 ..Aerial viewing

2 356/5.01 (0 OR, 2 XR)

Class 356 : OPTICS: MEASURING AND TESTING

356/3 RANGE OR REMOTE DISTANCE FINDING

356/4.01 .With photodetection

356/5.01 ..Of pulse transit time

2 356/5.08 (1 OR, 1 XR)

Class 356 : OPTICS: MEASURING AND TESTING

356/3 RANGE OR REMOTE DISTANCE FINDING

356/4.01 .With photodetection

356/5.01 ..Of pulse transit time

356/5.05 ...Having pulse transmission trigger
significance

356/5.08Including specific counter type timing of
returns

2 382/103 (0 OR, 2 XR)

Class 382 : IMAGE ANALYSIS

382/100 APPLICATIONS

382/103 .Target tracking or detecting

2 463/37 (0 OR, 2 XR)

Class 463 : AMUSEMENT DEVICES: GAMES

463/1 INCLUDING MEANS FOR PROCESSING ELECTRONIC DATA
(E.G., COMPUTER/VIDEO GAME, ETC.)

463/36 .Player-actuated control structure (e.g.,
brain-wave or body signal, bar-code wand,
foot pedal, etc.)

463/37 ..Hand manipulated (e.g., keyboard, mouse,
touch panel, etc.)

2 701/1 (2 OR, 0 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION

701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR
INDICATION

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2	701/14	(1 OR, 1 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/1	VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
	701/3	.Aeronautical vehicle
	701/14	..Flight condition indicating system
2	701/16	(2 OR, 0 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/1	VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
	701/3	.Aeronautical vehicle
	701/16	..With indication or control of landing
2	701/206	(0 OR, 2 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/200	NAVIGATION
	701/206	.Employing way point navigation
2	701/224	(0 OR, 2 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/200	NAVIGATION
	701/224	.With indicated course correction (compass deviation)
2	701/225	(0 OR, 2 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/200	NAVIGATION
	701/225	.Determining range without range measurement
2	701/226	(0 OR, 2 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/200	NAVIGATION
	701/226	.Space orbits or paths
2	701/24	(1 OR, 1 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/1	VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
	701/23	.Automatic route guidance vehicle

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701/24		..On-board computer interact with a host computer
2	701/27	(0 OR, 2 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/1	VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
	701/23	.Automatic route guidance vehicle
	701/27	..Artificial intelligence (e.g., fuzzy logic)
2	701/36	(0 OR, 2 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/1	VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
	701/36	.Vehicle subsystem or accessory control
2	701/41	(1 OR, 1 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/1	VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
	701/36	.Vehicle subsystem or accessory control
	701/41	..Steering control
2	701/6	(0 OR, 2 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/1	VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
	701/3	.Aeronautical vehicle
	701/4	..Altitude or attitude control or indication
	701/5	...Rate of change (e.g., ascent, decent)
	701/6Angle of attack
2	715/841	(0 OR, 2 XR)
	Class	715 : DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT
	715/700	OPERATOR INTERFACE (E.G., GRAPHICAL USER INTERFACE)
	715/764	.On-screen workspace or object
	715/810	..Menu or selectable iconic array (e.g., palette)
	715/841	...Sub-menu structure
2	800/288	(0 OR, 2 XR)

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	Class	800	:	MULTICELLULAR LIVING ORGANISMS AND UNMODIFIED PARTS THEREOF AND RELATED PROCESSES
E	800/278			METHOD OF INTRODUCING A POLYNUCLEOTIDE MOLECUL
				INTO OR REARRANGEMENT OF GENETIC MATERIAL
WITHIN A PLANT OR				PLANT PART
	800/288			.Nonplant protein is expressed from the polynucleotide
2	800/293		(0 OR, 2 XR)	
	Class	800	:	MULTICELLULAR LIVING ORGANISMS AND UNMODIFIED PARTS THEREOF AND RELATED PROCESSES
E	800/278			METHOD OF INTRODUCING A POLYNUCLEOTIDE MOLECUL
				INTO OR REARRANGEMENT OF GENETIC MATERIAL
WITHIN A PLANT OR				PLANT PART
	800/293			.Involving particle-mediated transfection (e.g.
,				biolistic, etc.)
2	800/320.1		(1 OR, 1 XR)	
	Class	800	:	MULTICELLULAR LIVING ORGANISMS AND UNMODIFIED PARTS THEREOF AND RELATED PROCESSES
R	800/295			PLANT, SEEDLING, PLANT SEED, OR PLANT PART, PE
				SE
	800/298			.Higher plant, seedling, plant seed, or plant part (i.e., angiosperms or gymnosperms)
	800/320			..Gramineae (e.g., barley, oats, rye, sorghum, millet, etc.)
	800/320.1			...Maize

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sensors 6
set 4
shock 4
show 1
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solid 3
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